

From

Dredge No 3419 April 11<sup>th</sup> 1891  
60

Dredge No 3451 Aug 28<sup>th</sup> 1891

From

Hydro No 2632 Apr 12<sup>th</sup> 1891  
60

Hydro No 2646 Aug 29<sup>th</sup> 1891

# Mary Reel

## 1891

Turns	Cor.	Turns	Cor.	Turns	Cor.
0	0	1450	21	2900	83
50	0	1500	23	2946	88
100	0	1550	24		
150	0	1600	26		
200	1	1650	27		
250	1	1700	29		
300	1	1750	31		
350	1	1800	33		
400	2	1850	35		
450	2	1900	37		
500	3	1950	38		
550	3	2000	41		
600	4	2050	43		
650	4	2100	45		
700	5	2150	47		
750	5	2200	49		
800	6	2250	51		
850	7	2300	53		
900	8	2350	56		
950	9	2400	58		
1000	10	2450	61		
1050	11	2500	64		
1100	12	2550	66		
1150	14	2600	68		
1200	15	2650	71		
1250	16	2700	74		
1300	18	2750	76		
1350	19	2800	79		
1400	20	2850	83		

1891.

1891.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



2946	88	2500	
733	49	2600	
2210	39	2700	
	733	2800	
	772	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

3 sp. Red Prawns  
 3 Sea Urchins  
 1 Crab. 1 small fish  
 3 shells  
 Net came up full of mud

No. 2632 Hy. Date April 12/91.

Sigsbee Machine. Reel. Mary.

Turns 796 Cor. + 42 Depth 1838 fms.

Shot or lead 38 lb.

Bottom gn. M.

Bottom temperature 38.5

No. of thermometer 66735 Cor. —

Corrected temperature 38.5

Air 79° Surface 80° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6-05-0	35-0	0		
06-0	34-0	100		
07-0	33-0	200		
08-0	32-30	300		
09-0	31-0	400		
10-0	19-15	500		
11-0	18-15	600		
12-0	17-15	700		
13-0	6-16-0	796		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

2946 88  
 796 46  
 2150 42

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No. *3420* Date *April, 12/91*  
*Sigsbee* Machine. Reel. *Star*  
 Turns *630* Cor. + *34* Depth *664 fathoms*  
 Shot or lead *38 lb.*  
 Bottom *dk. gn. M.*  
 Bottom temperature *39.6*  
 No. of thermometer *66735* Cor. *—*  
 Corrected temperature *39.6*  
 Air *81°* Surface *82°* Drift *E. x S. 7/10 m.* <sup>Mag.</sup>  
 Trawl or dredge *Small Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP. °		DOWN.	UP.
<i>7-26-30</i>	<i>41-15</i>	0	<i>7-48-0</i>	<i>39.00</i>
<i>27-30</i>	<i>40-20</i>	100	<i>52-0</i>	<i>35.30</i>
<i>28-30</i>	<i>39-30</i>	200	<i>57-0</i>	<i>32.30</i>
<i>29-30</i>	<i>38-30</i>	300	<i>8-0-0</i>	<i>29.00</i>
<i>30-30</i>	<i>37-30</i>	400	<i>03.30</i>	<i>26.00</i>
<i>31-30</i>	<i>36-30</i>	500	<i>07.15</i>	<i>23.00</i>
<i>32-30</i>	<i>35-30</i>	600	<i>11.00</i>	<i>20.00</i>
<i>33-0</i>	<i>7-35-0</i>	700	<i>14.45</i>	<i>16.30</i>
		800	<i>18.45</i>	<i>12.00</i>
		900	<i>22.45</i>	<i>07.00</i>
		1000	<i>26.30</i>	<i>9.03.00</i>
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946.	88.	2500	
630.	54.	2600	
2516.	34.	2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

- 1 Octopus
- 2 Medusae

Net evidently dragged into deeper water before getting anything in it.

No. 2633 Hy. Date April 12<sup>th</sup> 1891

Sigsbee Machine. Reel. Navy

Turns 868 Cor. + 44 Depth 912 fms.

Shot or lead 38 lbs.

Bottom dk. gn. M.

Bottom temperature 37.0

No. of thermometer 66725 Cor.

Corrected temperature 37.0

Air 82° Surface 82° Drift

Trawl or dredge

# SOUNDING WIRE.

DOWN.

UP.

TURNS.

# DREDGE ROPE.

DOWN.

UP.

9. 42.30	01.00	0
43.15	10.00.00	100
44.10	59.15	200
45.00	58.30	300
46.00	57.45	400
46.50	57.00	500
47.00	56.10	(8X)
49.00	55.15	700
51.00	54.15	800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

2445		2500	
	44	2600	
	44	2700	
	44	2800	
	44	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 244 Date April 13<sup>th</sup> 1891.

Sigsbee Machine. Reel. Vary.

Turns 570 Cor. + 32 Depth 602 fms.

~~Shot or lead~~ 38 lbs.

Bottom dk. gn. M.

Bottom temperature 40.0 -

No. of thermometer 66735 Cor. -

Corrected temperature 40.0 -

Air 81° Surface 82° Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
10.42.00	55.00	0		
43.05	54.05	100		
44.00	53.15	200		
45.00	52.25	300		
46.00	51.30	400		
47.05	50.30	500		
47.50	10.49.45	570		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946  
570  
 3516

88  
56  
 32  
3516  
 3500

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3421 *11* . Date April 12<sup>th</sup> 1911.

Sigsbee Machine. Reel. Navy.

Turns 67 Cor. + 21 Depth 388 fms.

Shot or lead 38 lbs.

Bottom dk. gn. M.

Bottom temperature 43.1.

No. of thermometer 66735 Cor. - .1

Corrected temperature 42.9 -

Air 52 Surface 52 Drift 1/2 mile. No. 1

Trawl or dredge Small beam trawl

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

11.22.45	32.00	0	11.32.30	16.00
24.45	31.50	100	33.31	16.5
25.30	31.40	200	40.07	12.30
	31.30	300	43.30	09.00
	31.20	400	47.00	04.00
		500		00.00
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500	
<u>367</u>	67	2600	
2580	<u>21</u>	2700	
	368	2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

#### REMARKS:

4 day Small Macerms, 12/3.



No. *3432* Date *April 12 1891*  
*Sigsbee* Machine. Reel. *Travy*  
 Turns *133* Cor. + *8* Depth *141 fms*  
 Shot or lead *38 lbs*  
 Bottom *gn. m.*  
 Bottom temperature *53.5*  
 No. of thermometer *66735* Cor. *-0.2*  
 Corrected temperature *53.3*  
 Air *61* Surface *63* Drift *-*  
 Trawl or dredge *Small beam and dredge*

## SOUNDING WIRE.

## DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.28.00</i>	<i>32.00</i>	0	<i>12.30.00</i>	<i>16.00</i>
<i>29.00</i>	<i>31.00</i>	100	<i>39.25</i>	<i>15.50</i>
<i>29.10</i>	<i>12.30.45</i>	200	<i>43.35</i>	<i>15.15</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2022  
 183  
 2813  
 80  
 80

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

3 Macrurus  
 1 Squid  
 1 Plumida

No. *12* Date *July 11*  
*Machine.* *Reel.* *911*  
 Turns *80* Cor. + *5* Depth *94 fms*  
 Shot or lead *38 lb*  
 Bottom *gn. M*  
 Bottom temperature *56*  
 No. of thermometer *66735* Cor. *-0.2*  
 Corrected temperature *55.8*  
 Air *8.4* Surface *83* Drift *—*  
 Trawl or dredge *Ree*

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>1.21.00</i>	<i>31.00</i>	0	<i>1.31.00</i>	
<i>29.00</i>	<i>1.29.10</i>	100	<i>37.00</i>	<i>01.20</i>
		150	<i>39.30</i>	<i>2.00.00</i>
		200		
		250		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946  
80  
2855

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

1 sp. Crat  
1 sp. Forst

Very fine

No. 17° 39' 30" N. Date 2 April 16/91.  
102° 11' 30" W Machine.

Reel.

Turns Cor. +

Depth 73

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 77

Surface 76

Drift

Trawl or dredge

Bottom trawl

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10-10-0 47-0

0

10-10-0

100  
75

10-20-0 10-32-0

200  
230  
300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

The sub. main line was dragged  
16 minutes at a depth of 176 fms. Builde  
failed and lower rope failed to close.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Few pteropods - 2 species.  
" small anemones - 2 sp.  
Sagittae, etc.

No. 2635 Hy. Date

Machine.

Reel. *Hand*

Turns 1900 Cor. + 78

Depth 2078 fms.

Shot or lead 60 lbs.

Bottom dk. gn. M.

Bottom temperature 36.0

No. of thermometer 66735 Cor. -

Corrected temperature 36.0

Air 72 Surface 74 Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

	47.00	0		
06.10	46.05	100		
07.10	45.30	200		
08.05	44.50	300		
09.05	44.10	400		
10.00	43.30	500		
10.55	42.50	600		
11.45	42.00	700		
12.40	41.15	800		
13.35	40.20	900		
14.40	39.30	1000		
15.45	38.35	1100		
16.50	37.35	1200		
18.00		1300		
19.10	35.35	1400		
20.15	34.20	1500		
21.30	33.10	1600		
22.45	31.50	1700		
24.05	30.30	1800		
26.00	28.45	1900		
26.45	5.27.30	1944		
		2000		
		2100		
		2200		
		2300		
		2400		

2946.		2500	
19.44		2600	
	1240	2700	
	5122	2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

1053 100 6.5 SERIAL TEMPERATURES. 6.17

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	65.4	59713		65.4
50	59.2	59713	-0.5	59.0
100	54.6	59713	0.0	54.6
200	50.2	59713	0.0	50.2
300	45.0	64019		45.0
400	40.2	64019		40.2
500	35.0	64019		35.0
600	30.0	64019		30.0
700	25.0	64019		25.0
800	20.0	64019		20.0
900	15.0	64019		15.0
1000	37.2	64019	0.2	37.0

REMARKS:

12

7

11

3



No. *2622* Date *Jan 1 1881*  
*Sigsbee* Machine. - Reel. *1000*  
 Turns *2022* Cor. + *80* Depth *2102*  
 Shot or lead *35 lb*  
 Bottom *gn of. with bk sp.*  
 Bottom temperature *35.8*  
 No. of thermometer *66720* Cor. -  
 Corrected temperature *35.8*  
 Air *73* Surface *74* Drift  
 Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

	<i>35 00</i>	0		
<i>50 20</i>	<i>34 10</i>	100		
<i>57 35</i>	<i>33 20</i>	200		
	<i>32 45</i>	300		
	<i>32 00</i>	400		
<i>54 15</i>	<i>31 15</i>	500		
<i>55 45</i>	<i>30 30</i>	600		
	<i>29 45</i>	700		
<i>58 05</i>	<i>29 00</i>	800		
<i>59 25</i>	<i>28 15</i>	900		
	<i>27 30</i>	1000		
<i>6 05</i>	<i>26 45</i>	1100		
	<i>26 00</i>	1200		
	<i>25 15</i>	1300		
<i>56 05</i>	<i>24 30</i>	1400		
	<i>23 45</i>	1500		
<i>59 30</i>	<i>23 00</i>	1600		
<i>11 05</i>	<i>22 15</i>	1700		
<i>12 31</i>	<i>21 30</i>	1800		
<i>13 00</i>	<i>20 45</i>	1900		
	<i>20 00</i>	2000		
	<i>19 15</i>	2100		
		2200		
		2300		
		2400		

2946  
 2022  
 924  
 80

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *741* Date *Apr 18 1881**Sigsbee* Machine. Reel. *Star*Turns *600* Cor. + *38* Depth *676 fms*Shot or lead *35 lb*Bottom *gy S bk sp mud sh*Bottom temperature *38.0*No. of thermometer *66735* Cor. *-*Corrected temperature *38.0 -*Air *76* Surface *76* Drift *1 K 14 W*Trawl or dredge *Dredge*

## SOUNDING WIRE.

## DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.02.00</i>	<i>15.10</i>	0	<i>11.18.10</i>	<i>1</i>
<i>02.55</i>	<i>14.40</i>	100	<i>22.10</i>	
	<i>14.10</i>	200	<i>26.10</i>	<i>1-1</i>
<i>03.50</i>	<i>13.25</i>	300	<i>30.15</i>	<i>56-0</i>
	<i>13.00</i>	400	<i>34.20</i>	
<i>04.55</i>	<i>12.30</i>	500	<i>38.25</i>	
	<i>12.00</i>	600		
	<i>11.10</i>	700		
		800	<i>52</i>	<i>12-11.0</i>
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946		2500	
638		2600	
2208	88	2700	
	50	2800	
	38	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

1 doz. *Macrurus*,  
 10 " *Comatula* (crinoids)  
 1 doz. *Parasquilla*  
 3 doz. *Parasquilla*  
 2 doz. *Stomatopoda*  
 2 doz. *Stomatopoda*, *Stomatopoda*, *Stomatopoda*  
 and *Stomatopoda*

No.

20 2017 Date

Machine.

Reel.

Turns 645 Cor. + 15

Depth 680 fathoms

Shot or lead 38 lbs

Bottom gy. s.

Bottom temperature 5

No. of thermometer 66

Cor.

Corrected temperature 39.0

Air 75 Surface 76

Drift  $\frac{1}{2}$  N N W

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	11 00	
		100	7 20	
		200	0-30	20
		300		
		400	17-30	14-00
		500		
		600	34-00	08-00
		700	38-30	04
		800	39 00	0-0
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Shot came up again

301

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

1. *Asplenium adnigrum* (L.) Oakes  
 2. *Asplenium platyneuron* (L.) Oakes  
 3. *Asplenium adnigrum* (L.) Oakes  
 4. *Asplenium platyneuron* (L.) Oakes  
 5. *Asplenium adnigrum* (L.) Oakes  
 6. *Asplenium platyneuron* (L.) Oakes  
 7. *Asplenium adnigrum* (L.) Oakes  
 8. *Asplenium platyneuron* (L.) Oakes  
 9. *Asplenium adnigrum* (L.) Oakes  
 10. *Asplenium platyneuron* (L.) Oakes

No. *3456* Date *May 17**Lucas* Machine.Reel. *Mar.*Turns *138* Cor. + *8*Depth *146*Shot or lead *35 lbs*Bottom *fine gy. S. Rky.*Bottom temperature *51.2*No. of thermometer *66135* Cor. *-0.2*Corrected temperature *51.2*Air *75* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

1 Immense Rock  
 few Worms. *Remarks:* *See Appendix*



No. *1000* Date *April 18 1881*Sinking Engine. Machine. Reel. *1000*Turns Cor. + Depth *80 fms*Shot or lead *Tangle Irons*Bottom *Key*Bottom temperature *51.4*No. of thermometer *66 730* Cor. *0.0*Corrected temperature *51.2* *4/10 mile*Air *75* Surface *76* Drift *7.0*Trawl or dredge *Tangle*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>3.06.30</i>	<i>42.00</i>	0	<i>4.03.00</i>	<i>23.0</i>
<i>3.07.15</i>	<i>3.30.00</i>	100	<i>07.30</i>	<i>4.19.00</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Small Crabs.  
Tergonia.

No. 2428 *52*. Date April 18<sup>th</sup> 1891.Machine. Reel. *Hand*.

Turns 225 Cor. + 13 Depth 238 fms.

~~Shot or lead~~ 38 lbs.Bottom *dk. gy. S. & Glob.*

Bottom temperature 48.3.

No. of thermometer 66735 Cor. - 0.2

Corrected temperature 48.1

Air 75 Surface 76 Drift *1.6*Trawl or dredge *Small Beam & Sigsbee*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

*P.M.* DREDGE ROPE.

DOWN.

UP.

31.15	37.15	0	6.40.00	23.00
32.15	36.15	100	44.30	24.00
33.15	35.15	200	48.50	24.40
34.30	6.35.00	300	52.50	20.00
		400	57.30	16.30
		500	7.00.00	13.00
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2246	22	2500	
225	215	2600	
2750	215	2700	
	215	2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

1. Shrimp  
 1. Pycnogonid  
 1. Pycnogonid

No. 3429 *N<sup>2</sup>* Date *4/1/07*  
 Machine. Reel. *1/1000*  
 Turns *1* Cor. + *10* Depth *715*  
 Shot or lead *35 lb. Ring*  
 Bottom *2 gl. b. gy. with for. & rky.*  
 Bottom temperature *37*  
 No. of thermometer *6675* Cor.  
 Corrected temperature *37.5*  
 Air *73* Surface *73* Drift *NW x 0*  
 Trawl or dredge *2 m. 1/2*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

		0		
		100		
07.10	24.25	200	47.33	43.30
08.15	23.35	300	51.55	
09.20	22.45	400	55.15	36.10
10.35		500		
11.50	20.55	600	6.04.00	30.30
13.10	19.45	700	07.35	24.00
14.30		800	12.05	
15.50	18.00	900	16.20	
		1000	19.55	14.25
		1100	24.20	14.00
		1200	28.55	10.15
		1300		
		* 1400	36.50	7.01.20
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

27-1	2500
27-1	2600
27-1	2700
27-1	2800
27-1	2900
27-1	3000
27-1	3100
27-1	3200
27-1	3300
27-1	3400
27-1	3500
27-1	3600
27-1	3700
27-1	3800
27-1	3900
27-1	4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600	71.5	71.5		
700	71.5	71.5		
800				
900				
1000				

# REMARKS:

*Sargassum* - with long arms of *epineura*  
*fur Munda* — Net Tera

No. *1130* Date *Aug 11 1880*  
Machine. Reel.

Turns *110* Cor. + *42* Depth *53 f*

Shot or lead *35 lbs*

Bottom *fk S*

Bottom temperature *37.2*

No. of thermometer *66735* Cor. -

Corrected temperature *37.2*

Air *74* Surface *73* Drift *N. 7.*

Trawl or dredge *13*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-11-0</i>	<i>2-0</i>	0	<i>1-17-0</i>	
<i>05-0</i>	<i>23-0</i>	100	<i>30-30</i>	<i>30.3</i>
<i>05-55</i>	<i>32-0</i>	200	<i>34-0</i>	<i>27</i>
<i>06-50</i>	<i>20-30</i>	300	<i>38-0</i>	<i>24.00</i>
<i>08-0</i>	<i>18-0</i>	400	<i>42-0</i>	<i>20.30</i>
<i>09-0</i>	<i>17-0</i>	500	<i>46-0</i>	<i>17.00</i>
<i>10-0</i>	<i>16-0</i>	600	<i>50-0</i>	<i>13.30</i>
<i>11-0</i>	<i>15-0</i>	700	<i>54-0</i>	<i>09.15</i>
<i>12-0</i>	<i>3-14-0</i>	800	<i>58-0</i>	<i>05.00</i>
		<i>840</i>	<i>4.01.50</i>	<i>5 00.00</i>
		900	<i>04.30</i>	<i>44.45</i>
		1000	<i>08.00</i>	<i>40.30</i>
		1100	<i>12.15</i>	<i>36.00</i>
		1200	<i>16.30</i>	<i>4.31.00</i>
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500	6.1	2500
2600	6.1	2600
2700	6.1	2700
2800		2800
2900		2900
3000		3000
3100		3100
3200		3200
3300		3300
3400		3400
3500		3500
3600		3600
3700		3700
3800		3800
3900		3900
4000		4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

2 or 3 small  
 1 Macrurus, 1 small plat  
 frag of  
 1 small  
 1 small



No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0		55-0
		100		51-0
		200		47-30
		300		44-0
		400		40-30
		500		37-30
		600		34-0
		700		31-0
		800		28-0
		900		24-30
		1000		21-30
		1100		18-0
		1200		14-30
		1300		11-0
		1400		8-0
		1500		4-30
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

all same - *P. althausi*  
 1000 fathoms - *Uca*  
 1200 " *Uca*  
 1400 " *Uca*  
 1600 " *Uca*  
 1800 " *Uca*  
 2000 " *Uca*  
 2200 " *Uca*  
 2400 " *Uca*  
 2600 " *Uca*  
 2800 " *Uca*  
 3000 " *Uca*  
 3200 " *Uca*  
 3400 " *Uca*  
 3600 " *Uca*  
 3800 " *Uca*  
 4000 " *Uca*

No. 3432 Date April 20

Sigsbee Machine. Reel. Navy.

Turns 1354 Cor. + 62 Depth 1421

Shot or lead 35 lbs.

Bottom m. fi. sh. sp.

Bottom temperature 37.8-

No. of thermometer 66735 Cor. -

Corrected temperature 37.8-

Air 72° Surface 70° Drift

Trawl or dredge B

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

2.01.00 31.00

30.15

100

03.20 29.35

200

04.20 29.00

300

05.30 28.15

400

06.35 27.30

500

07.45 26.45

600

08.50 26.00

700

10.10 25.05

800

11.20 24.10

900

12.40 23.15

1000

14.00 22.15

1100

15.20 21.15

1200

16.45 20.10

1300

18.00 19.30

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2.38.00

42.00

46.00

49.50

53.00

56.00

3.00.00

03.30

07.15

11.30

15.15

19.00

22.00

25.00

28.00

31.00

34.00

37.00

40.00

43.00

46.00

49.00

52.00

55.00

58.00

61.00

2946	58	2500	
1354	26	2600	
1587	62	2700	
	1357	2800	
	1421	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Draw			
100	100			
200	Net torn			
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

7 sps Holothurians  
2 sps sea urchins  
Larvalia - many & small

No.

Date

Machine. Reel. 2

Turns 115 Cor. + 56 Depth 171 fms

Shot or lead 35 lbs

Bottom m. s. gy. s.

Bottom temperature 36.5

No. of thermometer 66735 Cor. -

Corrected temperature 36.5

Air 73 Surface 64 Drift 1.5 mi N 1/2 E

Trawl or dredge Small Beam

SOUNDING WIRE		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
		0	6-34-0	32.00
		100	38-0	28.15
		200	42-0	25.15
		300		22.00
		400		18.00
		500	53-30	15.00
		600	57-0	11.15
		700	7-0-50	07.30
		800	34-30	03.45
		900	08-0	9.00.00
		1000	12-0	57.00
		1100	16-0	53.45
		1200		
		1300	25-0	46.30
		1400	29-0	42.00
		1500	33-0	38.15
		1600	37-0	34.30
		1700	41-0	30.30
		1800		
		1850	56-0	8.26.00
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Surface  
disagreed  
at 11-66.5  
at 7-11-0

1162	88	2500		
1754	88	2600		
	56	2700		
1162		2800		
1218		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Nothing at 1000 fathoms.

No. 3434 Date April 21  
 Sigbee Machine. Reel. Navy.

Turns 1520 Cor. + Depth 1520

Shot or lead 38 lbs.

Bottom fn. M. bk. sp.

Bottom temperature 36.4

No. of thermometer 66735 Cor. -

Corrected temperature 36.4

Air 71 Surface 75 Drift 1/2 mi. W.

Trawl or dredge

# SOUNDING WIRE.

DOWN.

UP.

TURNS.

# DREDGE ROPE.

DOWN.

UP.

31.5	10.45	0	10.14.00	51.30
32.5	09.50	100	15.15	50.30
33.5	09.10	200	21.30	49.00
34.5		300	25.15	33.00
35.5		400	29.00	30.00
36.5		500	32.45	25.30
43.30	06.10	600	35.15	21.00
44.30	05.20	700	38.45	17.00
45.35	04.30	800	45.00	12.00
46.45	03.35	900	48.45	07.00
47.45	02.45	1000	52.00	05.00
49.10	01.40	1100	57.00	07.00
50.25	10.00.30	1200	11.02.00	07.00
51.50	59.30	1300	05.45	45.00
53.10		1400	09.00	40.00
54.30		1500	12.00	34.00
55.45		1600	15.00	28.00
		1700	20.45	28.30
		1800	24.15	3, 09.00
		1900	28.15	21.00
		2000	32.15	07.10
		2100	36.15	2, 02.15
		2200	40.15	00.00
		2300	44.15	00.00
		2400	48.15	00.00

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

2 11.5  
12.30  
28.20

26.50  
17.15  
14.15

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

3 sp. *Halathurus*  
2 " *Frish*  
some worm tubes



No. 3235 S.S. Date April 25 1901  
 Sigsbee Machine. Reel. Heavy.  
 Turns 917 Cor. + 42 Depth 857 fms.  
 Shot or lead 38 lbs.  
 Bottom fm. m. bk. sp.  
 Bottom temperature 37.3  
 No. of thermometer 66735 Cor. -  
 Corrected temperature 37.3  
 Air 72 Surface 70 Drift 1/2 N. 1/2 E.  
 Trawl or dredge Small Beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
04.40	19.20	100	09.00.00	56.00
05.40	18.45	200	03.30	53.00
06.45	18.15	300	07.30	50.00
07.45	17.15	400	11.15	47.15
08.45	16.45	500	15.15	44.30
09.40	15.30	600	18.45	41.00
10.45	14.30	700	22.30	37.30
11.50	13.25	800	26.15	34.00
		900	30.00	30.00
		1000	33.30	26.15
		1100	37.45	22.30
		1200	41.30	18.30
		1300	45.15	14.15
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500
517	42	2600
2130	42	2700
	81.7	2800
	859	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	65.6	517	0.0	65.6
50	61.4	517	-0.2	61.2
100	54.5	517	-0.2	54.3
200		517	0.1	54.4
300	51.0	517	0.1	50.9
400	41.7	517	0.1	41.6
500	40.5	517	0.1	40.4
600		517	0.1	39.4
700	38.0	517	0.1	37.9
800				
900				
1000				

REMARKS:

2000 fms. Sphærotheca  
 2000 fms. Sphærotheca  
 3000 fms. Sphærotheca  
 Worms; Cancellaria

No. 3431 Date April 22<sup>nd</sup> 1891.

Machine. Reel. Navy

Turns 861 Cor. + 44 Depth 905 fms

Shot or lead 38 lbs

Bottom *fine sand*

Bottom temperature 27.2

No. of thermometer 66 735 Cor.

Corrected temperature 27.2

Air 75.0 Surface 75.0

Drift 1 m. 11

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
20		0	3.10.20	15.00
		100	14.30	11.30
		200		
		300	21.5	
		400	26.00	
		500	31.30	57.0
		600	35.0	51.6
		700	36.56	47.30
		800	39.05	46.0
		900	43.10	42.50
		1000	47.55	38.0
		1100	51.30	34.0
		1200	55.50	30.0
		1250	4-4-15	4-25-0
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Need subsurface current from Sond 18 miles. It was directed depth 8.0 fms. See notes. Cloud 800 fms. It is not so heavy former strata grey, has small not close together, and not in the bottom.		2500	1.5	
		2600		
		2700		
		2800		
		2900		
		3000	0.5	
		3100		
		3200		
		3300	0.1	
		3400		
		3500	2.0	
		3600		
		3700	More	
		3800	shall	
		3900	more	
		4000	Diff	

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

#### REMARKS:

Large rotellurians 2 sp.  
 2 gts. of limonans.  
 0 sp. prawns. 2 white annelids  
 Large fish (Muraena?) small Lyceids,  
 Macrurus, etc. Murex crabs  
 Variety of worms, small shells,

No. *263784* Date *April 21, 1881*  
*Sigsbee* Machine. Reel. *4000*

Turns *735* Cor. + *56* Depth *791*

Shot or lead *38 lbs.*

Bottom *brn m bk ck*

Bottom temperature *38.0*

No. of thermometer *66735* Cor. *—*

Corrected temperature *38.0*

Air *72* Surface *71* Drift

Trawl or dredge *Hydraulic dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>0</i>	<i>19</i>	0	<i>7-21 0</i>	<i>12.50</i>
<i>10</i>	<i>18</i>	100	<i>55.0</i>	<i>66.50</i>
<i>20</i>	<i>17</i>	200	<i>31.0</i>	<i>9.00 5</i>
<i>30</i>	<i>16</i>	300	<i>35.0</i>	<i>67.40</i>
<i>40</i>	<i>15</i>	400	<i>40.0</i>	<i>68.30</i>
<i>50</i>	<i>14</i>	500	<i>45.0</i>	<i>69.20</i>
<i>60</i>	<i>13</i>	600	<i>50.0</i>	<i>70.10</i>
<i>70</i>	<i>12</i>	700	<i>55.0</i>	<i>71.00</i>
<i>80</i>	<i>11</i>	800	<i>8-02 30</i>	<i>71.50</i>
<i>90</i>	<i>10</i>	900	<i>07.00</i>	<i>72.40</i>
		1000	<i>down</i>	<i>73.30</i>
		1100	<i>down</i>	<i>74.20</i>
		1200	<i>down</i>	<i>75.10</i>
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

5946	88	2500	The first ... of ... ... ... ... ... ... ...
735	1-2	2600	
2211	38	2700	
50	735	2800	
61	735	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	... ... ... ... ... ... ... ...
		3600	
		3700	
		3800	
		3900	
		4000	

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

A few red shrimp 2 or 3 sp.  
1 Mittacommata  
Several kinds small crustaceans  
surface life

107.

No. 3437 Date April 23<sup>d</sup> 1891  
 Sigsbee Machine. Reel. Navy.

Turns 596 Cor. + 32 Depth 628 fms.

Shot or lead 28 lbs.

Bottom fm. M. Gk. Sp.

Bottom temperature 40.

No. of thermometer 66735 Cor. -

Corrected temperature 40.0 -

Air 71 Surface 70 Drift

Trawl or dredge 2 ft. marine trawl.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
04.00	17.00	0		
5.15	17.00	100		
06.30	16.15	200		
07.45	15.25	300		
09.00	14.35	400		
10.15	13.45	500		
11.25	5.12.50	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	58	2500
596	56	2600
2356	52	2700
	51	2800
1507	53	2900
Submarine	54	3000
5.31.56	57.5	3100
57.5	53.15	3200
72.00	49.30	3300
46.30	45.00	3400
46.30	41.30	3500
44.30	38.00	3600
42.30	37.00	3700
41.30	36.15	3800
08.00	6.20.30	3900
		4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	14.30	stopper 5		
50	14.40			
100	14.50			
200	15.00			
300				
400				
500	15.10	Net dragged on bottom		
600		reared up 1000		
700		net.		
800	15.20	at a depth of 600		
900	for 15 minutes			
1000	15.30			

REMARKS:  
 Sea urchins.  
 Few shrimp. Worm tubes.  
 Holothurians. few Ophiurans.  
 2 sps. small fish



No. *0/26.50* Date *April 23<sup>rd</sup> 1891*Machine. Reel. *Hand*Turns *590* Cor. + *32* Depth *622 fms.*Shot or lead *38.*Bottom *fn. M. Gk. Sp.*Bottom temperature *39.2*No. of thermometer *66735* Cor. -Corrected temperature *39.2*Air *72°* Surface *72°* DriftTrawl or dredge *Submarine Trawl*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*06.30* *24.00*

0

*07.20* *23.20*

100

*08.10* *22.40*

200

*11.30* *21.55*

300

*13.15* *21.10*

400

*14.45* *20.20*

500

*17.15* *7.19.00*

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2946	85	2500	Lowered at 8-10-00 bottom 10 minutes. Hauled Net up at 8-11-00 Net was at 8-11-00
590	56	2600	
2360	32	2700	
	590	2800	
Am	1022	2900	
31.00	37.0	3000	
31.30	35.30	3100	
35.45	30.0	3200	
40.00	26.30	3300	
44.00	23.0	3400	
48.00	11.0	3500	Net was at 8-11-00 went down in 1 min - Net was at 8-11-00
51.00	8.00	3600	
		3700	
		3800	
		3900	
		4000	

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Flow Phosphates New species  
8 small fish. (unclear)

No. 3438 *112*. Date *August 8, 1901*

Tanner Machine. — Reel. —

Turns 20 Cor. + 0 Depth 20 fms

Shot or lead 26 lbs.

Bottom

Bottom temperature *11.5*

No. of thermometer 66735 Cor. —

Corrected temperature

Air *20* Surface *14.5* Drift *1/2 mi. S. 75. x W.*Trawl or dredge *11 ft. beam* (Trawl)

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

10.59.45	11.00.30	0	11.02.45	2.2.00
		60		
		100		
		150		
		200	2.2.50	40.25
		250	2.8.25	11.57.25
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

#### REMARKS:

*Limulus aspera*, 1 young *Spidophanta bi-*  
*lineata*, young *Ascidia* 2 or 3 sp.  
 10 starfish - 2 sp. 1 *Pycnogonid*, 1 red mated  
 mollusk, 1 stalked ascidian, 1 ascidian,  
 few hermit crabs, 2 sp. shrimps,  
 small punctate bryozoa, 1 sponge & hydroids

No. 2639 Hy. Date Aug 3

Sigsbee Machine. Reel. 1

Turns 30 Cor. + 1 Depth 31 fms

Shot or lead 2

Bottom Hk. P. Sh.

Bottom temperature

No. of thermometer 735 Cor. —

Corrected temperature

Air 49 Surface 45 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.41.10 11.43.00

30

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3439 J. Date Aug 3 1941.

Machine. Reel.

Turns 38 Cor. + 3 Depth 41 fms.

Shot or lead 26 lbs.

Bottom fine Hk. S.

Bottom temperature 44°

No. of thermometer 66735 Cor.

Corrected temperature

Air 50° Surface 44° Drift

Trawl or dredge S. B.

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

12.26.15 27.30

26.30 12.26.40

0

100

150

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

12.26.30 12.26.30

27.30 27.30

27.30 27.30

27.30 27.30

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Medusae.

REMARKS:

Ophiurans. 3 sps. Star fish.

Shells and Worms.

2 sps. Shrimps.

alligator fish.

Ascidian stalks. Lamb cotten



No. 3440 Dr. Date August 3<sup>rd</sup> 1891.

Tanner Machine. — Reel.

Turns 46 Cor. + Depth 48 fms

Shot or lead 26 lbs.

Bottom bk. M. sh.

Bottom temperature

No. of thermometer 66735 — Cor. lost.

Corrected temperature 1 mi.

Air 49 Surface 46 Drift S. W. & W.

Trawl or dredge S. B. (Mag.)

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

1.39.00

12.30

100

45.30

09.30

160

48.30

2.06.00

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Dist. thermometer 1.5°C.</i>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				<i>1.5°C.</i>

## REMARKS

*5 of small shells 70 very large shells*  
*12 large shells, few large shells, dry, two each*  
*1. Multicellular, small, green, etc. from*  
*Acorn-like form. 3 small red shells*  
*1 fresh small rotellid*

1700

No. 3411 Date Aug 13 1901  
Tanner Machine. — Reel.

Turns 11 Cor. + Depth 61

Shot or lead 26 lbs.

Bottom H. M. Sh.

Bottom temperature 39

No. of thermometer 69476 Cor.

Corrected temperature

Air 49 Surface 45 Drift 1 m.

Trawl or dredge 1. 1.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
30		0		45.3
11.0		100	17.0	
		200	21.0	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*few large shrimps*  
*at 1000 fms*  
*1 Pollack,*

No.

Date

Machine.

Reel.

Turns 45 Cor. + 2 Depth 47.

Shot or lead 26 lb.

Bottom Bl. M. sh.

Bottom temperature

No. of thermometer 69476 Cor.

Corrected temperature

Air 50. Surface 50. Drift 7/10 1/2

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
4-37-30	4-43-0	0	4-43-0	
39-0		100	48-30	5
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Small green medusae, 2 red medusae.  
 Anctopus & larval crustacea

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2. *Scy. tenuis*, 2 *Sten. (asperm.) asperm.*  
 3 *ba. (asperm.) asperm.*, 1 *ba. (asperm.) asperm.*  
 3 *ba. (asperm.) asperm.*, 1 *ba. (asperm.) asperm.*  
 2 *ba. (asperm.) asperm.*, 1 *ba. (asperm.) asperm.*  
 3 *ba. (asperm.) asperm.*, 1 *ba. (asperm.) asperm.*

No. *249-75* Date *June 1891*

Machine..... Reel.

Turns *70* Cor. + *2* Depth *42*Shot or lead *26 lbs.*Bottom *sh.*

Bottom temperature

No. of thermometer *64710* Cor.

Corrected temperature

Air *49* Surface *49* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No.

Date \_\_\_\_\_

Sanner Machine. Reel.

Turns 23 Cor. + 1 Depth 24

Shot or lead . . . 28 lbs

*Bottom*

Bottom temperature

No. of thermometer

*Cor.*

Corrected temperature

Air 3.3 Surface 4.8 Drift —

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.17.20	6.19.00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 5743 D- Date Aug 1 1881

Machine. Reel.

Turns 92 Cor. + 5 Depth 97 fms.

Shot or lead 26 lbs

Bottom gn. M. S. b.

Bottom temperature 46

No. of thermometer 69476 Cor.

Corrected temperature

Air Surface 57 Drift

Trawl or dredge L. B

## SOUNDING WIRE.

DOWN. UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

2.09.00

47.00

100

13.00

43.45

200

17.15

250

19.00

2.37.00

~~300~~

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Fishes  
 2 *Thynnus* *prostratus*, 3 *Thynnus* *celi*

Crabs - few Rhodius -  
 5 sp. Brachyopods, 1 sp. of  
 13 Urchins, few sp. Clionids  
 15 sp. Starfishes - few sp. Echinoderms

No.

Date

Aug 7 1891.

Machine.

Reel.

Turns

76

Cor. +

4

Depth

80 fms.

~~Shot or lead~~

26 lbs

Bottom

gy. M. S.

Bottom temperature

1.5

No. of thermometer

69476

Cor.

Corrected temperature

Air

66

Surface

55

Drift

Trawl or dredge

L.

1 1/10

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

1.5

51.5

0

3.54.00

4

1.1

.25

100

38.15

23-0

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine. . . . . Reel.

Turns. *95* Cor. + *5* Depth *100*Shot or lead *36*

Bottom

Bottom temperature

No. of thermometer *64416* Cor.

Corrected temperature

Air *10.5* Surface *12.4* DriftTrawl or dredge *313* *2 1/2 B. mag.*

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*34-30**43-0**47-0**6.05.0*





No. *1000* Date *19 June 1881*

Machine. Reel.

Turns *95* Cor. + *5* Depth *100*Shot or lead *26 lbs.*Bottom *bn m*Bottom temperature *44.5*No. of thermometer *69476* Cor.

Corrected temperature

Air *68* Surface *68*Drift *2.1*Trawl or dredge *11*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

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2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*A few shrimp  
seen near  
surface.*

*Under  
surface  
1/2 hr. Medusa*

No. *2642 Hy.* Date *Aug. 3*  
*Tanner* Machine. — Reel.

Turns *74* Cor. + *4* Depth *78 400*

Shot or lead *26 lbs.*

Bottom

Bottom temperature

No. of thermometer *69476* Cor.

Corrected temperature

Air *100* Surface *50* Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns 137 Cor. +

Depth

Shot or lead

Bottom ... Y

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
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2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns Cor. + Depth 100

Shot or lead

Bottom

Bottom temperature

No. of thermometer 6 Cor.

Corrected temperature

Air 6 Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No. *261574* Date *May 11*  
*Tanner* Machine. Reel.  
 Turns *119* Cor. + *6* Depth *119*  
 Shot or lead *56*  
 Bottom *gy. S.*  
 Bottom temperature *48.5*  
 No. of thermometer *69875* Cor.  
 Corrected temperature *48.5*  
 Air *50* Surface *52* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3447 Date

Machine. Reel.

Turns 110 Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.			UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
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		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
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		2300		
		2400		

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2800  
2900  
3000  
3100  
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3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Fishes  
Microgaster punctatus - 15 - specimens  
Larvae 75, 100, average 800.  
2 other small specimens,  
1 small piece of broken specimen  
1 small specimen, probably a larva, not sure  
small of the same as the other two.  
Total 11 specimens, 1000.

No. *11158* Date *August 11, 91*  
 Machine. Reel.  
 Turns *43* Cor. + *5* Depth *98 fms*  
 Shot or lead *26 lbs*  
 Bottom *gy. S.*  
 Bottom temperature *44°*  
 No. of thermometer *69476* Cor.  
 Corrected temperature  
 Air *25* Surface *11* Drift *0.0 W. 1.1 N.*  
 Trawl or dredge *C B*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

	<i>12.00</i>	0	<i>3.13.00</i>	<i>48.00</i>
	<i>1.05</i>	100	<i>1.15</i>	
		200	<i>20.30</i>	<i>40.30</i>
		300	<i>23.45</i>	<i>3.31.15</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Fishes:

## REMARKS:

2 Rat fish 1 skate 1 *Cryptocéphalus*

1 *Pycnogonidae* (starfish)  
few starlings & prawns

No. *31449* Date *Aug. 1, 1881*  
*Tanner* Machine. — Reel.  
 Turns *127* Cor. + *1* Depth *128 fms.*  
 Shot or lead *26 lbs.*  
 Bottom *gy. S. G.*  
 Bottom temperature *det. at 127*  
 No. of thermometer *69476* Cor. —  
 Corrected temperature — *1 Knot*  
 Air *61* Surface *61* Drift *—*  
 Trawl or dredge *L. B.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.08.00</i>	<i>13.00</i>	0	<i>4.14.00</i>	<i>46.15</i>
<i>09.00</i>	<i>11.00</i>	100	<i>18.00</i>	<i>43.00</i>
<i>19.30</i>	<i>09.40</i>	200	<i>22.00</i>	<i>40.00</i>
		300		<i>37.00</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

*Fishes*  
 1 *Sebastes rubrivinctus*  
 1 " *lanceus*?  
 4 *Thryssa pacifica*  
 2 *Myxodonta*  
 1 *Urophycis*



17003

No. 3450 - Date Aug. 27<sup>th</sup> 11.  
 Tanner Machine. - Reel.

Turns 145 Cor. + 6 Depth 151 fms.

Shot or lead 26 lbs.

Bottom S.

Bottom temperature 44"

No. of thermometer 69476 Cor.

Corrected temperature

Air 5.1 Surface 5.2

7/10 knot.  
 E. by S.  
 1/2 E.

Trawl or dredge L. B.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	17.25	0	5.15.00	5.44.30
13.15	15.30	100	22.00	52.30
	5.15.15	200	24.00	49.30
		300	27.00	46.30
		350		
		400	30.00	5.44.30
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



No. 3411 Date

Tanner Machine. Reel.

Turns 101 Cor. + 5 Depth 106

Shot or lead 26 lbs.

Bottom

Bottom temperature

45°

No. of thermometer 69476 Cor.

Corrected temperature

Air 50 Surface

Drift

6/10 knot

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

00

28.30

0

6.57

7.02.00

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



507

No. *264* Date *1897*

*Tanner* Machine. Reel.

Turns *55* Cor. + *4* Depth

Shot or lead *26 lbs*

Bottom *g*

Bottom temperature

No. of thermometer *6947* Cor.

Corrected temperature

Air *87* Surface *87* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *2646 Hy* Date *August 29/91*  
*Sanner* Machine. Reel.

Turns *133* Cor. + *7* Depth *140*

Shot or lead *36 lbs*

Bottom *gravel*

Bottom temperature *44.2*

No. of thermometer *69476* Cor.

Corrected temperature

Air *54°* Surface *53°* Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>6-39-0</i>	<i>6-43-0</i>	0		
<i>40-0</i>		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

put 2 on. Morning of 29<sup>th</sup>

1 cod & 1 halibut

being to rocky bottom -

lines chafed off - and

only about 1/5 of cod trawl

was recovered - 3 Black Cod -

max weight - 28 lbs.

22 lbs.

Nothing recovered

of halibut trawl

hoops

having trawl under



$$\begin{array}{r} 28.8 \\ 2 \overline{) 57.6} \\ \underline{57.6} \\ 0 \end{array}$$

202.8

60.20



$$\begin{array}{r} 615 \\ 100 \\ \hline 482 \end{array} \quad 7$$

$$\begin{array}{r} 615 \\ 100 \\ \hline 582 \end{array} \quad 505$$

# Tanner Reel

2

$$\begin{array}{r} 6' 15'' \\ 22 \\ \hline 5' 7'' 3 \end{array}$$

+

615 Turns. Correction 17

Turns	Correction
50	0
100	0
150	1
200	2
250	3
300	4
350	5
400	7
450	9
500	11
550	13
600	16
615	17

Figure same as table for  
Regebe Machine